submitted in lieu of Form 3160-5

**UNITED STATES**
**DEPARTMENT OF THE INTERIOR**
**BUREAU OF LAND MANAGEMENT**

Sundry Notices and Reports on Wells

1. **Type of Well**
GAS

5. **Lease Number**
SF-080711

6. **If Indian, All. or Tribe Name**

7. **Unit Agreement Name**

2. **Name of Operator**
MERIDIAN OIL

San Juan 30-6 Unit

8. **Well Name & Number**
**San Juan 30-6 U 26**

3. **Address & Phone No. of Operator**
PO Box 4289, Farmington, NM 87499 (505) 326-9700

9. **API Well No.**

4. **Location of Well, Footage, Sec., T, R, M**
1150'FSL, 990'FWL Sec.19, T-30-N, R-6-W, NMPM

10. **Field and Pool**
Blanco Mesa Verde

11. **County and State**
**Rio Arriba Co, NM**

**12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA**

| **Type of Submission** | **Type of Action** | |
|---|---|---|
| __x Notice of Intent | ___ Abandonment | ___ Change of Plans |
| | ___ Recompletion | ___ New Construction |
| ___ Subsequent Report | ___ Plugging Back | ___ Non-Routine Fracturing |
| | ___ Casing Repair | ___ Water Shut off |
| ___ Final Abandonment | ___ Altering Casing | ___ Conversion to Injectio |
| | _x_ Other - pay add | |

**13. Describe Proposed or Completed Operations**

It is intended to perforate and stimulate the upper cliff House, Menefee and lewis intervals and add to the existing Mesa Verde formation per the attached procedure.



**14. I hereby certify that the foregoing is true and correct.**

Signed Peggy Bradfield (REH) Title Regulatory Affairs Date 2/23/94

(This space for Federal or State Office use)
APPROVED BY _____ Title _____ Date _____
CONDITION OF APPROVAL, if any:

APPROVED
FEB 25 1994
DISTRICT MANAGER

NMOCD

## Pertinent Data Sheet - San Juan 30-6 Unit #26

**Location:** 1150' FSL, 990' FWL, Section 19, T-30-N R-6-W, Rio Arriba County, NM

**Field:** Blanco Mesaverde **Elevation:** 6216' GL **TD:** 5592'
**PBTD:**

**Completion Date:** 5-9-58 **DP Number:** 69836

**Initial Potential:** 13,214 MCF/D

**Casing Record:**

| Hole Size | Casing Size | Weight & Grade | Depth Set | Cement | Top/Cement |
|---|---|---|---|---|---|
| | 10-3/4" | 32.75# SW | 174' | 100 sx | Surface |
| | 7-5/8" | 26.4# J-55 8rd | 3365' | 200 sx | 2150' (TS) |
| | 5-1/2" liner | 15.5# J-55 8rd | 3295'-5589' | 300 sx | 3295' (TS) |
| | 7-5/8" Float @ 3339' | | | | |
| | 5-1/2" Float @ 5543' | | | | |

**Tubing Record:**

| Tubing Size | Weight & Grade | Depth Set |
|---|---|---|
| 2-3/8" | 4.7# J-55 8rd | 5535' (~~182~~ 179 jts.) |

**Formation Tops:**

| | | | |
|---|---|---|---|
| Ojo Alamo | 2116' | Cliffhouse | 5010' |
| Kirtland | 2330' | Menefee | 5046' |
| Fruitland | 2848' | Pt. Lookout | 5306' |
| Pictured Cliffs | 3145' | Mancos | 5577' |
| Lewis | 3268' | | |

**Logging Record:** GR, Induction, Temperature Survey

**Stimulation:** Frac Pt. Lookout @ 5276'-5564' w/79,000 gal water and 70,000# sand
Frac Cliffhouse @ 5022'-5042' w/31,500 gal water and 30,000# sand

**Workover History:**

| | | | |
|---|---|---|---|
| **Production History:** | Initial Deliverability | 4903 MCFD | 0 BOPD |
| | Latest Deliverability | 232 MCFD | 0 BOPD |

**Transporter:** NWPL

San Juan 30-6 Unit #26
SW/4 Section 19, T-30-N, R-06-W
Recommended Recompletion Procedure
Menefee/ Upper Cliffhouse/ Lewis Pay-Adds

Note: Notify BLM (326-6201) and NMOCD (327-5344) 24 hours before rig activity.

1. Shut in well for 7 day pressure build-up. Record wellhead pressures.

2. Inspect location. Test location rig anchors and repair if necessary. Install 1 X 400 bbl rig tank and fill with filtered (2 microns) 2% KCl water. Install 8 X 400 bbl tanks for fraccing and fill 2% KCl water. Add 5# of biocide per tank before filling.

3. Hold safety meeting. MIRU. Place fire and safety equipment in strategic locations. Comply with all MOI, BLM, and NMOCD rules and regulations. NU relief line and blooie line to laydown flow tank. Obtain and record all wellhead pressures.

4. Blow down tubing. If tubing will not blow down, kill the well with the filtered KCl water.

5. TOOH with 5535' of 2-3/8", 4.7# 8rd tubing (179 jts). Visually inspect tubing and replace any bad joints.

6. TIH with 5-1/2", 15.5# casing scraper and a tapered 2-7/8", 6.40# and +/- 3300' of 3-1/2" 9.4# workstring ( Top of 5-1/2" liner is at 3395'). Make scraper run down to 5530'. TOOH.
**NOTE: Whenever possible keep the 3300' of 3-1/2" in each workstring trip and adjust the amount of 2-7/8" to reach the objective.**

7. TIH with Baker Model G Retrievable Bridge Plug in tandem with 5-1/2" Left-Hand Set Baker Retrievamatic E-A Packer and workstring. Set retrievable bridge plug @ 5250', above the Point Lookout perforations. Pull up 2 joints, set packer and pressure test bridge plug to 3000 psi for 15 minutes. Dump 2 sx of sand on top of retrievable bridge plug.

8. PU and set the packer at 4990". Pressure test the backside to 2000 psi. Unseat packer TOOH.

9. RU wireline. Run GR-CBL-CCL from bridge plug to 3800' (TOC was originally located with a Temperature Survey at 3295). Evaluate GR-CBL-CCL and send copy to production engineering.

**Menefee Stimulation:**

10. TIH with the workstring and spot 5 bbls of inhibited 7-1/2% HCl from 4990' to 5200'. TOOH

11. Perforate the Menefee interval from 5170' to 5200' with 3-3/8" with 4 SPF 120 deg phase 14 gram charges with minimum standoff.
NOTE: SHOOT INTERVAL IN ONE RUN.

12. PU 5-1/2" straddle packer (isolation liner) on the 2-7/8" workstring. TIH and set the straddle packer to overlap the Cliffhouse perforations from 5022 - 5042'. **Bottom packer element at 5055' and the top element at +/- 4995'.** TOOH.

13. RIH with a pressure gauge on the wireline to 5030'. Record the pressure build-up for 6 hours. TOOH, RD wireline.

14 RIH with packer on workstring and set packer at 4800'. Pressure test the backside to 2000 psi to ensure the packer is set.

15. RU stimulation company. Hold safety meeting. Pressure test surface lines to 4000 psi (1000 psi over maximum allowable treating pressure but no greater than working pressure of surface lines). **Maximum treating pressure is 3000 psi.** Fracture well according to procedure provided by production engineer.

16. Collect any required post frac pressure fall-off data. Bleed off any remaining wellhead pressure by flowing back the well through a choke. TOOH with the packer.

17. TIH with the straddle packer retriever on the workstring and retrieve straddle packer. TOOH.

**Upper Cliffhouse Stimulation:**

18. TIH with Baker Model G Retrievable Bridge Plug in tandem with 5-1/2" Left-Hand Set Baker Retrievamatic E-A Packer and workstring. Set retrievable bridge plug @ 4970', above the Cliffhouse perforations. Pull up 2 joints, set packer and pressure test bridge plug to 3000 psi for 15 minutes. Dump 2 sx of sand on top of retrievable bridge plug.

19. Fill the hole with Filtered KCL water. Spot 5 bbls of inhibited 7-1/2% HCl from 4690' to 4900'. TOOH

20. Perforate the Upper Cliffhouse interval from 4870' to 4900' with 3-3/8" with 4 SPF 120 deg phase 14 gram charges with minimum standoff.
NOTE: SHOOT INTERVAL IN ONE RUN.

21. RIH with a pressure gauge on the wireline to 4880'. Record the pressure build-up for 6 hours. TOOH, RD wireline.

22. RIH with packer on workstring and set packer at 4700'. Pressure test the backside to 2000 psi to ensure the packer is set.

23. RU stimulation company. Hold safety meeting. Pressure test surface lines to 4000 psi (1000 psi over maximum allowable treating pressure but no greater than working pressure of surface lines). **Maximum treating pressure is 3000 psi.** Fracture well according to procedure provided by production engineer.

24. Collect any required post frac pressure fall-off data. Bleed off any remaining wellhead pressure by flowing back the well through a choke. TOOH with the packer.

**Lewis Stimulation:**

25. TIH with Baker Model G Retrievable Bridge Plug in tandem with 5-1/2" Left-Hand Set Baker Retrievamatic E-A Packer and workstring. Set retrievable bridge plug @ 4300', above the Cliffhouse perforations. Pull up 2 joints, set packer and pressure test bridge plug to 3000 psi for 15 minutes. Dump 2 sx of sand on top of retrievable bridge plug.

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Menefee/Upper Cliffhouse/ Lewis Payadds

26. Fill the hole with Filtered KCL water. Spot 5 bbls of inhibited 7-1/2% HCl from 3935' to 4145'. TOOH

27. Perforate the Lewis interval from 4115' to 4145' with 3-3/8" with 4 SPF 120 deg phase 14 gram charges with minimum standoff.
NOTE: SHOOT INTERVAL IN ONE RUN.

28. RIH with a pressure gauge on the wireline to 4125'. Record the pressure build-up for 6 hours. TOOH, RD wireline.

29. RIH with packer on workstring and set packer at 4000'. Pressure test the backside to 2000 psi to ensure the packer is set.

30. RU stimulation company. Hold safety meeting. Pressure test surface lines to 4000 psi (1000 psi over maximum allowable treating pressure but no greater than working pressure of surface lines). **Maximum treating pressure is 3000 psi.** Fracture well according to the procedure provided by production engineering. Shut in well for 6 hours upon completion of stimulation to allow gel to break.

31. Bleed off any remaining wellhead pressure by flowing back the well through a choke. TOOH with the packer.

32. TIH with 2-3/8" tubing and retrieving head for the retrievable bridge plug above the Upper Cliffhouse. Cleanout to bridge plug with air until sand production is minimal. Obtain pitot gauge for the Lewis formation. Record pitot gauge as the Lewis formation only. Latch onto retrievable bridge plug and release bridge plug while pumping water down tubing-casing annulus if necessary. TOOH and lay down retrievable bridge plug.

33. TIH with 2-3/8" tubing and retrieving head for the retrievable bridge plug above the Cliffhouse. Cleanout to bridge plug with air until sand production is minimal. Obtain pitot gauge for the Lewis/ Upper Cliffhouse formations. Record pitot gauge as the Lewis/ Upper Cliffhouse formations. Latch onto retrievable bridge plug and release bridge plug while pumping water down tubing-casing annulus if necessary. TOOH and lay down retrievable bridge plug.

34. TIH with 2-3/8" tubing and retrieving head for the retrievable bridge plug above the Point Lookout. Cleanout to bridge plug with air until sand production is minimal. Obtain pitot gauge for the Lewis/ Cliffhouse/ Menefee formations. Record pitot gauge as the Lewis/ Cliffhouse/ Menefee formations. Latch onto retrievable bridge plug and release bridge plug while pumping water down tubing-casing annulus if necessary. TOOH and lay down retrievable bridge plug.

35. RU wireline. Run Tracer Survey top down from 3900' to 5600'. Send copy of logs to Production Engineering. RD wireline.

36. TIH with an expendable check valve, one joint of 2-3/8" tubing, seating nipple, and 2-3/8" production tubing. Cleanout to COTD (5570') with air (using 1 to 2 joints of extra 2-3/8" as needed). Pull up in well and land tubing around 5535'. Obtain final pitot gauge. ND BOP's, NU WH. RD and MOL.

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Menefee/Upper Cliffhouse/ Lewis Payadds

37. Hook-up well and produce for 14 days. Then shut-in for 7 days. RU wireline with a pressure gauge. Obtain a gradient survey and bottom hole pressure at the end of the 7 day shut-in.

Approved: _____
Dean Lingo

Approved: _____
Jim Howieson

for DBJ

Vendors:

Wireline Services ..... Basin Perforating (327-5244)
Stimulation:..... BJ (327-6288)
Packers and Bridge Plugs: ..... Baker Service Tools (325-0216)

Production Engineer:

Robin E. Hesketh Home: ..... (327-9174)
Office: ..... (326-9808)